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**Date**        **November 07, 1999**  
**To :**        **Primary Examiner Thong Nguyen**  
              **Art unit 2872**  
**From :**      **Goulven VERNOIS**  
              **1 RUE DES Chalets**  
              **78140 VELIZY        France**  
              **Fax 33 01 34 65 31 39**  
              **Application 08/809620**

**4 pages, with this**

Dear Sir,

Please, find here substitute claims (TE991015), in better accordance with 37 CFR 1.121 and 1.125.

Please, find here pages 2 and 3 of substitute specification (TE991101) with indices bracketed for cancellation :

page 2, line 15 ,"74";  
page 3, line 7, "45.4 and 46.4";  
page 3, line 27, "and 67.1";  
page 3, line 28, "65.8";

Sincerely yours

**Goulven VERNOIS**

**CLAIMS**

1 (amended). Optical device comprising a mirror and a device actuating the mirror, characterized in that the mirror and the actuating device are independent concave membranes called membranous mirror and actuating membrane.

14 (amended) - Optical device according to claim 1 characterized in that the actuating membrane and the membranous mirror are made totally or partially of a material having shape memory.

15 (amended)- Optical device according to claim 1 characterized in that, for their folding, the concave actuating membrane and the concave membranous mirror are made quasi plane by the formation of concentric circular undulations obtained by a succession of centered distortion alternately concave and convex, and the quasi plane one thus obtained rolled up on itself according to a diameter.

18 (amended)- Optical device according to claim 1 characterized in that the actuating membrane and the membranous mirror are obtained by material deposit on a liquid contained in a container rotating around a vertical axis.

19 (amended)- Optical device according to claim 1 characterized in that the membranous mirror and the actuating membrane have central and/or peripheral flanges

44- Optical device according to claim 1 characterized in that the distance between the

actuating membrane and the membranous mirror is monitored permanently by capacitive coupling between said actuating membrane and said membranous mirror.

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**New claim 45**

On november 19, 1999, applicant sent a fax at 12h 30 (french hour).

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**DATE        november 19, 1999**

**TO           Primary Examiner Thong Q. Nguyen  
              Art Unit 2872**

**FROM        Goulven VERNOS  
              1 rue des Chalets  
              78140 VELIZY  
              France**

**Application 08/809 620**

Dear Sir,

a) I ask for a new claim :

45- Optical device according to claim 18 characterized in that a ring, on which the materials constituting a membrane can be deposited, is fixed in a removable way on the revolving container, and in that the said ring allows the handling of the membrane.

b) I ask for amendment of the substitute description, page 4, line 9, by cancellation of the 7 bracketed words.

Present text : « ... obtained can be (first) scrolled lengthwise (and then rolled in a cercle). »

Amended text : « ...obtained can be scrolled lengthwise. »

Sincerely yours

Goulven VERNONIS

### CLAIMS

1. Optical device comprising a mirror and a device actuating the mirror,  
characterized in that the mirror and the actuating device are independent concave membranes (called membranous mirror and actuating membrane).
- 14- Optical device according to claim 1 characterized in that the actuating membrane and the membranous mirror are made totally or partially of a material having shape memory.
- 15- Optical device according to claim 1 characterized in that, for their folding, the concave actuating membrane and the concave membranous mirror are made quasi plane by the formation of concentric circular undulations obtained by a succession of centred distortion alternately concave and convex, and the quasi plane one thus obtained rolled up on itself according to a diameter.
- 18- Optical device according to claim 1 characterized in that the actuating membrane and the membranous mirror are obtained by material deposit on a liquid contained in a container rotating around a vertical axis.
- 19- Optical device according to claim 1 characterized in that the membranous mirror and the actuating membrane have central and/or peripheral flanges
- 44- Optical device according to claim 1 characterized in that the distance between the actuating membrane and the membranous mirror is monitored permanently by capacitive coupling between said actuating membrane and said membranous mirror.
- 45- Optical device according to claim 18 characterized in that a ring, on which the materials constituting a membrane can be deposited, is fixed in a removable way on the revolving container, and in that the said ring allows the handling of the membrane.
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#### New claim 44:

44. Optical device according to claim 1 characterized in that the distance between the actuating membrane and the membranous mirror is monitored permanently by capacitive coupling between said actuating membrane and said membranous mirror.
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### 3) DRAWINGS

The selected (no cancelled) figures are on the former sheets 6/15 (former figures 18, 19, 20), 9/15 (former figures 31, 32, 36, 37), and 10/15 (former figures 38, 39, 43).